

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/763,104	01/22/2004	Jannis G. Stavrianopoulos	Enz-61(D4)	7444	
28171 ENZO BIOCH	7590 02/01/201 IEM INC	1	EXAM	INER	
527 MADISO	527 MADISON AVENUE (9TH FLOOR)			RILEY, JEZIA	
NEW YORK,	NY 10022		ART UNIT	ART UNIT PAPER NUMBER	
			1637	•	
			MAIL DATE	DELIVERY MODE	
			02/01/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) STAVRIANOPOULOS ET AL. 10/763.104 Office Action Summary Examiner Art Unit

	Jezia Riley	1637					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALLING DATE OF THIS COMMUNICATION. Excensions of them may be swallake under the provisions of 37 OF11 1/3(s). In no event, however, may a reply be timely lifed after SIX (6) MONTHS from the mailing date of this communication. I NO period or reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Faiture to reply within the set or extended period for reply will be patient to be provided will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Faiture to reply within the set or extended period for reply will be patient to the patient of the pa							
Status							
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is FINAL. 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		e merits is				
Disposition of Claims							
4) ⊠ Claim(s) <u>287-320</u> is/are pending in the applicat 4a) Of the above claim(s) is/are withdrav 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>287-299.303-312 and 315-317</u> is/are 7) ⊠ Claim(s) <u>300-302,313,314 and 318-320</u> is/are 8) □ Claim(s) are subject to restriction and/or	wn from consideration. rejected. objected to.						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the E drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	a 37 CFR 1.85(a). ected to. See 37 C					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 3. Copies of the certified copies of the priority accuments application from the international Bureau. * See the attached detailed Office action for a list.	s have been received. s have been received in Application ity documents have been received I (PCT Rule 17.2(a)).	on No ed in this National	Stage				
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					

2) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/10/04. 6) Other: ___ U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Action Summary Part of Paper No./Mail Date 20110128 Application/Control Number: 10/763,104

Art Unit: 1637

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Art Unit: 1637

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 2. Claims 287, 288, 291-294, 297, 298, 303-308, 310-312, 315, 316 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 4-11, and 17 of U.S. Patent No. 7,256,291. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are both claiming a labeled target and labeling reagent comprising a marker moiety linked to a reactive group via a linker for attaching the labeling reagent to a target. Said linker can comprise a backbone comprising at least 2 consecutive peptide bonds.
- 3. Claims 287-294, 297, 298, 303, 305-308, 310-312, 315, 316 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 7,166,478. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are both claiming a labeled target and labeling reagent comprising a marker moiety linked to a reactive group via a linker for attaching the labeling reagent to a target. Said linker can comprise a backbone comprising at least 2 consecutive peptide bonds.

Application/Control Number: 10/763,104 Page 4

Art Unit: 1637

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 287-291, 297-299 303, 305-308, 315-317 are rejected under 35
 U.S.C. 102(b) as being anticipated by Thiele et al. (Analytical Biochemistry 218, 330-337 (1994)).

Thiele et al. discloses photocleavable biotinylated ligands. In page 333, it is shown a labeling reagent for labeling target. Said labeling reagent comprising a moiety, biotin, attached to a reactive group by a linker arms comprising peptide bonds (CO-NH). And said reactive group is capable of forming a C-C linkage with the target. (see scheme I).

Claims 289 are also included in the rejection because their limitations do not further limit claim 287 to said nucleic acid being the target.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 10/763,104

Art Unit: 1637

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 287-299, 303, 305-312, 315-317 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thiele et al. (Analytical Biochemistry 218, 330-337 (1994)) in view of Rothschild et al. (US6,589,736).

Thiele et al. discloses photocleavable biotinylated ligands. In page 333, it is shown a labeling reagent for labeling target. Said labeling reagent comprising a moiety, biotin, attached to a reactive group by a linker arms comprising peptide bonds (CO-NH). And said reactive group is capable of forming a C-C linkage with the target. (see scheme I).

Rothschild et al. disclosed photocleavable agents for the detection and isolation of biomolecules. In the Summary of the invention, it is shown that the bioreactive agent is composed of marker (D) linked to reactive group (aromatic ring which can be covalently attached to a biomolecule (peptides, nucleic acid etc.).

Therefore it would have been obvious at the time the invention was made to apply the agent of Rothschild comprising a detectable moiety being a fluorescent label ((col. 9, line 45-47) for the agent of Thiele. The motivation is that fluorescent label are well known and widely used as a detectable label in molecular biology.

- 8. Claims 300-302, 313, 314, 318-320 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jezia Riley whose telephone number is 571-272-0786.
 The examiner can normally be reached on 9:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/763,104 Page 7

Art Unit: 1637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jezia Riley/ Primary Examiner, Art Unit 1637 1/29/2011